

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP01/05439

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01P1/208, H01P1/213, H01P7/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01P1/20-1/219, H01P7/00-7/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	EP 1001483 A (Murata Manufacturing Co., Ltd.), 17 May, 2000 (17.05.00), Par. No. [0057]; Figs. 8(A), 8(B) Par. No. [0057]; Figs. 8(A), 8(B) & JP 2000-151229 A & CN 1254965 A	1-3, 5, 7-9 4, 6
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 18250/1988 (Laid-open No. 122607/1989), (Murata Mfg. Co., Ltd.), 21 August, 1989 (21.08.89), Full text; Figs. 1 to 4 (Family: none)	1-3, 5, 7-9
Y A	JP 11-112204 A (Alps Electric Co., Ltd.), 23 April, 1999 (23.04.99), Full text; Figs. 1 to 10 Full text; Figs. 1 to 10 & DE 19842040 A	1-3, 5, 7-9 4, 6

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
17 July, 2001 (17.07.01)Date of mailing of the international search report
31 July, 2001 (31.07.01)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10-84201 A (Murata Mfg. Co., Ltd.), 31 March, 1998 (31.03.98), Full text; Figs. 1 to 12 (Family: none)	1-12
A	JP 10-224113 A (Murata Mfg. Co., Ltd.), 21 August, 1998 (21.08.98), Full text; Figs. 1 to 7 (Family: none)	6